

APAP-ALF patient plasma analysis

 Katelyn Arnold  Jian Liu

Updated date: Dec 2, 2020

 An abbreviated version of this protocol was published in Science Translational Medicine in Mar 2020

Design of anti-inflammatory heparan sulfate to protect against acetaminophen-induced acute liver failure

DOI: 10.1126/scitranslmed.aav8075

Related files

 APAP patient plasma protocol.docx



How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Arnold, K. and Liu, J. (2020). APAP-ALF patient plasma analysis. Bio-protocol Preprint. bio-protocol.org/prep668.
2. Arnold, K., Xu, Y., Sparkenbaugh, E. M., Li, M., Han, X., Zhang, X., Xia, K., Piegore, M., Zhang, F., Zhang, X., Henderson, M., Pagadala, V., Su, G., Tan, L., Park, P. W., Stravitz, R. T., Key, N. S., Linhardt, R. J., Pawlinski, R., Xu, D. and Liu, J. (2020). Design of anti-inflammatory heparan sulfate to protect against acetaminophen-induced acute liver failure . Science Translational Medicine 12(535). DOI: [10.1126/scitranslmed.aav8075](https://doi.org/10.1126/scitranslmed.aav8075)

Copyright: Content may be subjected to copyright.